

**Amendments to the Claims:**

The listing of present claims in the application:

**Listing of Claims:**

1. (currently amended) A solid fuel air explosive, comprising:
  - a first grain, wherein said first grain is a high explosive;
  - a second grain, wherein said second grain is a metal fuel grain, wherein said second grain substantially surrounds said first grain;
  - about 4.0 to about 6.0 weight % of at least one binder; and
  - about 14.0 to about 36.0 weight % ammonium perchlorate (AP).
2. (original) The solid fuel air explosive of Claim 1, wherein the ratio of said second grain to said first grain is about .66 to about 1.45.
3. (original) The solid fuel air explosive of Claim 1, wherein the ratio of said second grain to said first grain is about 1.0.
4. (original) The solid fuel air explosive of Claim 1, wherein the said first grain comprises:
  - about 87 to about 90 weight % cyclotetramethylene tetranitramine (HMX); and
  - about 10 to about 13 weight % binder, wherein said binder comprises at least one of hydroxy-terminated polybutadienes (HTPB), hydroxy-terminated polycaprolactone (PCP), hydroxy-terminated polyesters, hydroxy-terminated polyethers (HTPE), glycidyl azide polymer (GAP), lauryl methacrylate (LMA) and trifluoroethyl-terminated poly (1-

cyano-1-difluoramino)-polyethylene glycol (PCDE).

5. (original) The solid fuel air explosive of Claim 1, wherein said metal fuel grain is selected from the group consisting of reactive metal and metal composite.

6. (original) The solid fuel air explosive of Claim 5, wherein said reactive metal is selected from the group consisting of nano-sized metal particles, metastable mechanical alloy and any combination thereof.

7. (original) The solid fuel air explosive composition of Claim 5, wherein said reactive metal is selected from the group consisting of nano-sized aluminum, nano-sized boron and nano-sized titanium, nano-sized magnesium, Al-Mg, Al-Mg-H, B-Mg, Al-B, Ti-B, Ti, B, Mg and H-2 and H-5.

8. (original) The solid fuel air explosive composition of Claim 6, wherein said nano-sized metal particles have an average particle size of about 200 nm to about 500 nm.